

NOTES ON THE GENUS DELOSPERMA (MESEMBRIEAE)

M. LAVIS

Delosperma monanthemum Lavis sp. nov. (*Angustifolia*).—Rami 38 visi, quorum 33 florem singulum apud apicem ferunt, gracillimi pallidi, 7—18 cm. longi, internodiis 4—22 mm. longis, 0.75—1.75 mm. diam.; radix lignosa, ad 5 mm. diam.; partes herbaceae glabrae; folia ascendentia vel patentia, supra linearia, prope apicem leviter angustata vel abrupte acuta, plana vel leviter concava, lateraliter visa obtusa, dorso subrotundo, 1.3—2.4 cm. longa, 1.5—4 mm. lata, ad 3 mm. diam.; flores 2.4—3 cm. diam.; pedunculi saepius 2—3.8 cm. longi; receptaculum subclavatum, 3—4 mm. longum diametroque vel in floribus senioribus ad 5 mm. longum diametroque; sepala 5, exteriora 6—7 mm. longa, basi 2 mm. lata, interiora ad 4 mm. longa, basi 1.5 mm. lata; petala ca. 2-seriata, e parum supra medium inferne angustata, irregulariter emarginata vel 3-denticulata, roseo purpurea, ad 1.3 cm. longa, ad 1.5 mm. lata; staminodia diu erecta, demum apicem versus spiraliter recurva, rosea, stamina excedentia, ad 5 mm. longa; filamenta ca. 3-seriata, conferta, exteriora ciliate parce papillata, intima apud medium vel parum supra longe papillata, antheris pollineque luteis; glandulae obscure crenulatae humiles; ovarium circa marginem planum, lobis abrupte ad per 0.75 mm. elevatis, obtuse compressis; stigmata demum ad 5 mm. longa, anguste subulata, intus conspicue papillata, 5 mm. longa cum cauda 0.75 mm. longa.

Locality uncertain: Bolus Herbarium 27827. Fl. hort. L. Bolus, Jan.—Apr. 1942—1944.

Described from dried specimens and dissections and notes made by L. Bolus from living material.

Delosperma wiumii Lavis sp. nov. (*Angustifolia*).—Rami 3 visi, graciles glabri, copiose ramulosi, ad 8 cm. longi, internodiis 5—18 mm. longis, ca. ad 2 mm. diam.; ramuli floriferi ad 6 cm. longi, 0.5 mm. diam.; folia saepissime ascendentia, supra linearia, superne leviter angustata, obtusa vel subacuta, 1.4—3 cm. longa cum vagina ca. ad 1 mm. longa, 2—3 mm. lata diametroque; flores 1—3-nati; pedunculi gracillimi, 3—9 mm. longi; receptaculum obconicum, ad 2 mm. longum, 3 mm. diam.; sepala 5, 3—6 mm., vel 2—4 mm., vel 2—3

mm., longa, basi 1—1·5 mm. lata, omnia $\pm$ marginata; petala ca. 3-seriata, laxa, inferne leviter angustata, apice fere rotundo, inferne pallida, superne pulchre rosea, 4—7 mm. longa, 0·5—1 mm. lata; staminodia petaloidea numerosa, stamina bene excedentia; filamenta 3—4-seriata, ad 2 mm. longa, interiora prope medium dense papillata, papillis praecipue longis; glandulae subapproximatae; ovarium supra circa marginem planum vel leviter concavum, deinde abrupte obtuseque leviter elevatum, lobis subapproximatis; stigmata anguste subulata, ca. 1·5 mm. longa cum cauda 0·5 mm. longa.

Orange Free State: "Langeberg, 12 miles East of Bethlehem, top of Asvoel's Krans, sandy soil between sandstone rocks, altitude ca 6,200 ft. plentiful," January 8, 1954. *E. J. F. Wium* 10. Fl. hort. L. Bolus Mart. 1955.

Described from dried specimens, dissections and notes made from living material by L. Bolus.

The following 4 species are described from dried material and drawings in colour made from living material by Miss B. O. Carter.

Delosperma giffenii Lavis sp. nov. (*Angustifolia*).—Planta l visa, rigida, 45 cm. alta, radice lignosa, 1·2 cm. diam., caule 7 mm. diam., laxissime ramosa; rami 16—27 cm. longi, internodiis 1·1—3 cm. longis, 1—2 mm. diam., pallidis vel subrubidis; folia ascendentia vel patentia vel recurva, supra plana linearia, longe acuminata, obscure carinata, sparse minuteque papillata, papillis setiferis, setis decurvis, duplo longioribus quam papillis, 2·2—4·3 cm. longa, parum supra basim 3—4 mm. lata, 2 mm. diam.; flores 1—3-nati, ad 2·4 cm. diam.; pedunculi a receptaculo bene distincti; receptaculum subglobosum, ca. 3 mm. longum diametroque; sepala 5, valde inaequilonga, exteriora longe acuminata, ad 1·5 cm. longa, basi 3 mm. lata, interiora acuminata 3—5 mm. longa, 1·5—2 mm. lata; petala 4-seriata, intima acuta, exteriora irregulariter emarginata, roseo purpurea, ad 9 mm. longa, ad 1 mm. lata vel parum ultra; staminodia alba vel superne rosea, stamina leviter excedentia; filamenta 4-seriata, seriebus 3 infra medium papillatis, pallidissime roseis, antheris pollineque luteis; glandulae approximatae, obscure crenulatae, humiles; ovarium circa marginem planum, lobis erectis, obtuse compressis, ad 0·75 mm. elevatis; stigmata anguste subulata, ad 1·5 mm. longa cum cauda ca. 0·75 mm. longa.

Cape Province: in dit. Albany; Fort Hare, Feb. 1935, *M. H. Giffen* 602. Fl. hort. L. Bolus Apr. et Junio 1935.

Delosperma reynoldsii Lavis sp. nov. (*Angustifolia*).—Plantae 2 visae, ferae glabrae sublignosae, caule apud basim ad 7 mm. diam., dense ramosae ramulosaeque, 15—17 cm. altae, ad 17·5 cm. diam.; rami primarii ad 15·5 cm. longi, internodiis ad 2 cm. longis, ad 5 mm. diam.; partes herbaceae conspicuissime papillatae, papillis rotundis, subglaucae, interdum roseo tinctae; folia ascendentia vel subfalcata, supra fere plana, prope apicem leviter angustata, obtusa, later-

ibus convexis, dorso rotundo, 2—4 cm. longa, ad 6 mm. lata diametroque; flores 1—3-nati, vel interdum fere 2-ternati, cymam 4 cm. longam, 2 cm. diam., formantes; pedunculi 3—8 mm. longi; receptaculum obconicum, 5 mm. longum, apice 6—7 mm. diam.; sepala 5, extima obtusa, 8—9 mm. longa, basi 5 mm. lata, interiora acuta, 6—7 mm. longa, basi 4—5 mm. lata; petala ca. 3-seriata, e prope medium inferne angustata, obtusa vel saepissime leviter irregulariterque emarginata, roseo purpurea, 2·1 cm. longa, ad 2 mm. lata; staminodia gracilia, prope apicem leviter recurva, acuminata, roseo purpurea, stamina excedentia; filamenta 8-seriata, seriebus 2 interioribus prope medium inconspicue papillatis, rosea ad 8 mm. longa, antheris pollineque pallidis; glandulae subapproximatae crenulatae; ovarii lobi stellate patentes, obtuse compressi, ad 1 mm. vel parum ultra elevati; stigmata 5, anguste subulata, 6 mm. longa cum cauda fere 2 mm. longa.

Orange Free State: near Ficksburg, "flat grass veld, rather sandy soil, forms patches, 2—3 feet across, quite showy." Fl. Sept. 1938. *G. W. Reynolds* 3030. Typus. "Also seen quite plentiful inside the Railway fence between Clocolan and Ficksburg, and also seen north of Ficksburg." "13 miles north of Ficksburg." Dec. 1934. *E. E. Galpin* N.B.G. 2556/34.

Delosperma fredericii Lavis sp. nov. (*Cymosa*—*Frutescentia*).—Rami primarii 8 visi, 27 cm. longi, 30 cm. diam., basi ad 4 mm. diam., internodiis 5—18 mm. longis, ad 2·5 mm. diam., copiose ramosi ramulosique, floriferis ultimis gracilimis, ad 9 cm. longis; folia saepius ascendentia, demum patentia, triquetra, supra visa acuta, lateraliter visa prope apicem angustata, apice interdum leviter recurvo vel subtruncato, leviter politaque, saepius 1—1·5 cm. longa, 2—3 mm. lata diametroque; cymae ternatae vel irregulariter 2-ternatae vel 3-ternatae, 4·5—13 cm. longae, 2—11 cm. diam.; pedunculi subintrusi gracilissimi, prope apicem dilatati, 6—13 mm. longi; receptaculum minute hispidum, obscure 5-lobatum, lobis rotundis, 1 mm. longum, 4 mm. diam.; sepala 5, acuta, exteriora 3—4 mm., vel rarius ad 5 mm., longa, basi ad 1·5 mm. lata, interiora 2—3 mm. longa, basi ad 1·25 mm. lata; petala 1-seriata, inferne e prope medium angustata, apice rotundo, pallide testacea, in siccis atrata, ad 5 mm., vel in flore majore 7 mm., longa, ad 1 mm. lata; staminodia appressa alba, stamina leviter excedentia; filamenta conice conferta, prope medium obscure papillata, 2 mm. longa; glandulae distantes crenulatae inconspicuae; ovarii lobi erecti obtusi, vix compressi, fere ad 1 mm. elevati; stigmata 5, anguste subulata, ca. ad 2 mm. longa cum cauda ca. 0·75 mm. longa.

Cape Province: in dit. Uitenhage; Despatch, *Fred H. Holland*. N.B.G. 678/25. Fl. Feb.—April 1929—1932.

Delosperma wilmaniae Lavis sp. nov. (*Cymosa*—*Herbacea*).—Rami primarii 8 visi, ad 25 cm. longi, 2—4 mm. diam., copiose ramulosi, internodiis pallidis

vel albis, 1—5·7 cm. longis; ramuli floriferi ad 17 cm. longi, ad 3 mm. diam.; folia ascendunt vel patentia vel recurva, supra linearia concava, prope apicem angustata, obtusa, dorso rotundo, 2·5—4 cm. longa, ad 3 mm. diam.; cymae breves 2-ternatae, vel irregulariter ca. 5—6-ternatae, 9 cm. longae, ca. 5 cm. diam.; pedunculi saepius 0·5—1·5 cm. longi; receptaculum fere semiglobosum, 3 mm. longum, 5 mm. diam.; sepala 5, variabilia, subaequilonga, 2—3 mm. longa, basi 1·5 mm. lata, vel 4—8 mm. longa, basi 1·25—4 mm. lata, saepius obtusa; corolla 9—11 mm. diam.; petala ca. 2—3-seriata, alba, 4—5 mm. longa, ca. 0·5 mm. lata; staminodia nulla; filamenta 3-seriata, 1·5—2·5 mm. longa, antheris pollineque luteis; glandulae distantes conspicuae, atre virides; ovarii lobi stellate patentes, glandulas fere attingentes, obtuse compressi, ca. ad 0·75 mm. elevati; stigmata 5, 1·5 mm. longa cum cauda dimidium aequante; capsula infra obconica, 2·5—3 mm. longa, 2·5 mm., expansa, 5—6 mm., diam., supra ca. ad 1 mm. elevata, suturis compressis.

Cape Province: in dit. Griqualand West; prope Kimberley, "on the banks of the Modder River, on the Harris' farm Kalkdrift, the plants seem to last for only a few seasons." Fl. Jan.—May, 1927—1933, *M. Wilman*. Bolus Herbarium, 27810.

Ad *D. zoëam* valde affine, sed receptaculo fere semigloboso, petalis angustioribus, staminodiis absentibus, filamentis epapillatis, differt.

Described partly from the dried specimens that flowered on the fine rockery near the Kimberley Museum, a living memorial of Miss Maria Wilman's manifold achievements during her long curatorship of the Kimberley Museum. Our dissections were made from living plants, as were those also, together with her drawings, of Miss B. O. Carter.

Note.—The type specimens of all new species described in this paper are in the Bolus Herbarium, University of Cape Town.

(To be continued)